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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/089,789	06/03/1998	JAY M. SHORT	D1270-3US	3204
	7590 12/10/201 ORPORATION	EXAMINER		
-	perty Department	MCGARRY, SEAN		
P.O. Box 91055 SAN DIEGO, C	-		ART UNIT	PAPER NUMBER
			1635	
			NOTIFICATION DATE	DELIVERY MODE
			12/10/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	09/089,789	SHORT, JAY M.			
Office Action Summary	Examiner	Art Unit			
	Sean R. McGarry	1635			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 22 J This action is FINAL . 2b) ☑ This Since this application is in condition for allowated closed in accordance with the practice under the second se	s action is non-final. ince except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 43-60,62 and 65-82 is/are pending in the application. 4a) Of the above claim(s) 44,45,50,54-60,62,70,71 and 76 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 43, 46, 47, 51-53, 65-69, 72-75, and 77-82 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the lead rawing(s) be held in abeyance. See tion is required if the drawing(s) is objection	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/22/2010 has been entered.

Claims 43-60, 62, and 65-82 are pending.

Claims 44, 45, 58-50, 54, 57-60, 62, 70, 71, and 76 remain withdrawn from consideration. Claims 55 and 56 are now withdrawn from consideration since the claims have been amended to depend from withdrawn claim 43.

Claims 43, 46, 47, 51-53, 65-69, 72-75, and 77-82 are currently under examination.

In the response filed 6/22/2010 applicant requested a telephonic interview upon a review of the response. The examiner contacted applicant representative on 11/29/2010

to comply with this request. Applicants representative, Lynn Linkowski, indicated by voice message that an interview was not desired.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 43, 46, 47, 51-53, 65-69, 72-75, and 77-82 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The previous grounds of rejection have been overcome in view of applicants amendments to the claims. The grounds of rejection below are new grounds based on applicants amendments to the claims.

Claims 43, 80 and 82 all recite "a step comprising" (i), (ii), and (iii) in part (c) of each claim. The language renders the claim vague and indefinite since "a step" ie a single step can not comprise all steps (i), (ii), and (iii). The language also lends to improper Markush language where, if the intent of the limitation is to select from (i), (ii) and (iii), then the term comprising leave one in the art left with an unidentified group where the groups to select from comprises (i), (ii) and (iii) but is not limited thereto where the potential other constituents of the group are unidentified.

Claim 66 recites "wherein the at least one organism marker" There is insufficient antecedent basis for this language in the claim.

Claim 69 recites "wherein the at least one organism marker" There is insufficient antecedent basis for this language in the claim.

Those claim indicated as rejected and not specifically treated above are rejected in so far as they depend from the claims addressed above.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 43, 46, 47, 51-53, 65-69, 72-75, and 77-82 are rejected under 35 U.S.C. 102(a) as being anticipated by Stein et al [Journal of Bacteriology Vol. 178(3):591-599, 1996].

Stein et al have disclosed the characterization of uncultivated prokaryotes where the organism samples were obtained directly from an aquatic environment. Genomic nucleic acid samples were selected and placed into libraries. The uncultivated organism samples where subject to various selections such as size selection. For example, 30 liter samples were filtered to select for organisms and these samples were further

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subject to concentration of the desired organisms (see material and methods at page 592 and see also page 593 "Results". It is disclosed that some samples were collected for rRNA abundance analysis. Nucleic acids were screened for rDNA. Nucleic acid samples were placed into vectors where digested nucleic acids of 35-45kpb were selected.

Vectors were placed into E.coli and this organism sample was selected for plasmid containing cells(it is noted that this organism sample represents a heterologous population since, for example the initial puplation subjected to selection either contained fosmids/plasmids or did not and also contained different fosmids/plasmids, for example). The population or sample was selected for, first cells that contain fosmids and then further selected for clones that contained16S rDNA. This sample was even further subcloned where the clones contained gene clusters(see page 594, for example.). RDNA containing samples were selected utilizing primers. Nucleic acid samples were selected based on nucleic acid content including 16S RNA and it is disclosed that the sample contained a specified content of C+C content. See entire Materials and Methods section and also Figure 1 which shows various organism and nucleic acid selection steps and well as Figure 2 which shows selection of nucleic acids. See also Table 1. See also top of right column on page 595 and right column of page 596, for example.

Applicant arguments filed 6/20/2010 have been considered but are not persuasive. Applicant argus that the uncultivated organisms where not manipulated. This is not argeed with since they were filtered and concentrated and the bacteria

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populations of the cloning/subcloning steps were also selected by various means. It should also be noted that applicant terms used in the claims are defined broadly in the specification. For example "catalogued comprises any library, including libraries with one consituent, that is characterized with respect to its constituents (see pages 11 and 14). "Adjusting to advantage" includes no adjustment (see page 14). "an organism form includes E.col1 (see page 12). A fraction includes 100% (see page 13).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 43, 46, 47, 51, 52, 55, 56, 65-69, 72-75, and 77-79 were rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over

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claims 1-14 of U.S. Patent No. 6,001,574. This rejection is moot in view of the terminal disclaimer filed 6/22/2010. The TD has been approved and entered in the application.

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Claims 43, 46, 47, 51, 52, 55, 56, 65-69, 72-75, and 77-79 were rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-6 of U.S. Patent No. 5,763,239. This rejection is moot in view of the terminal disclaimer filed 6/22/2010. The TD has been approved and entered in the application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean R. McGarry whose telephone number is (571) 272-0761. The examiner can normally be reached on M-Th (6:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Calamita can be reached on (571) 272-2876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sean R McGarry Primary Examiner Art Unit 1635

/Sean R McGarry/ Primary Examiner, Art Unit 1635